

**A Method and Device for Controlling or Regulating the Brake System of a Motor
Vehicle according to the Brake-by-wire Principle**

Abstract of The Disclosure

The most important aspect of brake systems in motor vehicles functioning according to the brake-by-wire principle is that the driver's braking requirements are detected quickly and reliably. Fulfilling this requirement primarily depends on the pedal sensor system associated with the brake pedal and its measuring devices for determining the characteristic values of the brake pedal actuation. The present invention provides for at least two measuring devices for determining the braking requirement, with such measuring devices sensing the same characteristic value of the brake pedal actuation, e.g. the brake-pedal actuation force, brake-pedal travel or brake-pedal angle. These braking requirement signals are compared to a signal from a third measuring device in order to monitor the braking requirement measuring devices.